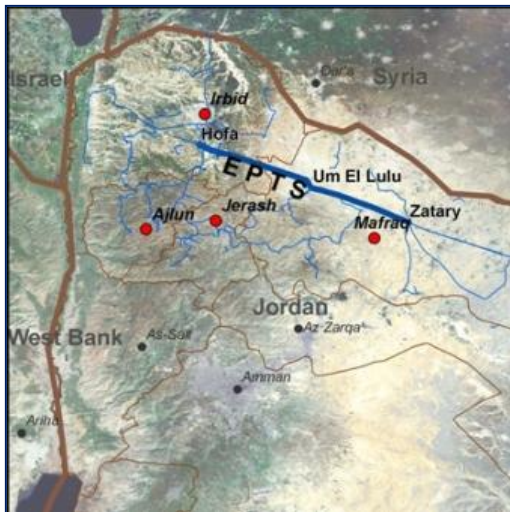




Water & Environment Sector PROJECT PROFILE

March 2011



Aerial map of the Northern Governorates region and the East Primary Water Transmission System's 48 km-long Zatary - Hofa Pipeline

PROJECT SNAPSHOT

Implemented by: Camp, Dresser & McKee; Sorenson Gross, Water Authority of Jordan

Duration: 2009 – 2011

Total Funding: \$48.4 million

Beneficiaries: 1.7 million Jordanians

Geographic Coverage: Northern Jordan (Irbid, Jerash, Mafrqa, and Ajloun)

Northern Governorate Water System (Zatary-Hofa Pipeline)

BACKGROUND

Jordan's fast-growing population and increasing demand for water require expansion and improvement of water transmission systems. This project is based on a feasibility study conducted in 2005 which produced a prioritized list of municipal water supply projects that are needed through the year 2030 in the service area of the Northern Governorates Water Authority (NGWA). The study area covered four governorates – Irbid, Jerash, Mafrqa, and Ajloun – which are served by the NGWA, an operations unit of the Water Authority of Jordan (WAJ).

The recommended facilities comprised water transmission mains and associated components (distribution storage reservoirs, pump stations, water treatment plants, groundwater wells, water-resources facilities and a centralized monitoring and control system). The study defined new transmission pipelines, reservoirs, pump stations and treatment plants required for the NGWA system as a whole. The proposed projects were broken into geographic portions, taking into account the phased development of the transmission system, and including the relevant requirements for rehabilitation of the existing transmission system and installation of a centralized monitoring and control system.

After completion in year 2011, the Zatary - Hofa Pipeline will be capable of handling an additional 11.7 MCM/year (about 20% of the total current water supply of the whole Northern Governorates). The existing facilities at the discharge points of the pipeline at Um El-Lulu and Hofa are capable of distributing these additional amounts of water almost evenly to all parts of the Northern Governorates. Upon completion of the project, NGWA will modify its rationing program to handle the increased amount of water available to the region.

ACTIVITIES

- Constructing a new pump station at Zatary in Mafrqa Governorate, including a control building, installation of pump station equipment and station yard piping
- Civil and landscaping works at the Zatary pump station site
- Installing approximately 47,800 m of Ductile Iron Pipe pipeline and take-offs ranging in size from 700 mm to 1000mm diameter with air release valves, gate valves, butterfly valves and wash outs
- Installing a General Packet Radio Service (GPRS)-based telemetry reservoir including intermediate control points



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Project staff coordinate with local authorities near Al-Husun, Irbid Governorate.

PROGRESS & ACHIEVEMENTS

- Achieved 46% of work activities
- Received 90% of DIP material on site
- Continued work activities towards completion of the project on schedule

PARTNERS

- Camp, Dresser & McKee
- Sorenson Gross
- Ministry of Water and Irrigation
- Ministry of Public Works and Housing
- Municipalities of Mafraq and Irbid
- Jordanian Armed Forces

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